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| <b>Notice of Allowability</b> | <b>Application No.</b><br>09/887,545<br><b>Examiner</b><br>Romain Jeanty | <b>Applicant(s)</b><br>DAGUM ET AL.<br><b>Art Unit</b><br>3623 |
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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 7/17/06 and 9/29/06.
2.  The allowed claim(s) is/are 2-5, 13, 14, 19, 23, 26 and 29.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

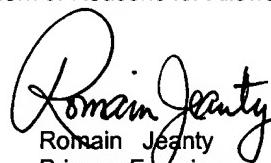
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.



Romain Jeanty  
Primary Examiner  
Art Unit: 3623

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

#### **In the claim:**

##### **Claim 1:**

Line 7, after "products;", insert --determining an infeasible region, the infeasible region comprising conditions where a supply of the components fails to meet a demand for the production;--

Line 10, after "integrals,", insert --displaying the sum of the multidimensional integrals, wherein the sum of the multidimensional integrals is used for the estimation of mean production for the products.--

##### **Claim 7:**

Line 8, after "products", insert --determining an infeasible region, the infeasible region comprising conditions where a supply of the components fails to meet a demand for the products;--

Line 11, after "integrals,", insert --displaying the sum of the multidimensional integrals, wherein the sum of the multidimensional integrals is used for the estimation of mean production for the products.--

**Claims 13:**

Line 7, after “products;”, insert --determining an infeasible region, the infeasible region comprising conditions where a supply of the components fails to meet a demand for the production;--

Line 10, after “integrals;”, insert --displaying the sum of the multidimensional integrals, wherein the sum of multidimensional integrals is used for the estimation of mean production for the products.--

**Claims 25, 27 and 29:** Cancelled.

Authorization for this examiner's amendment was given in a telephone interview with Cyrus F. Bharucha on September 29, 2006.

**Allowable Subject Matter**

2. Claims 2-5, 13-14, 19, 23, 26, and 29 are allowed.

**Reasons for Allowance**

3. The following is an Examiner's statement of reasons for allowance:

The closest prior art is to Huang et al (US Patent No. 6,151,582), and Papageorgiou et al (Faster Evaluation of Multidimensional Integrals). Huang et al teach the creation of an integrated production, sales and inventory plan and provide a projection concerning what is

feasible in the production, sales and inventory plan. Papageorgiou et al teach the concept of using multidimensional integrals relating to product production. However, the combination of Huang et al and Papageorgiou et al fails to teach determining an infeasible region, the infeasible region comprising conditions where a supply of the components fails to meet a demand for the production and a sum of multidimensional integrals to estimate of mean production for the products as recited in independent claims 1, 7, and 13.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **Conclusion**

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. Makivic (US Patent No. 6,061,662) discloses a system to evaluate a multidimensional integral efficiently to sample different regions of the path space according to their contribution to the integral, i.e., to perform importance sampling.

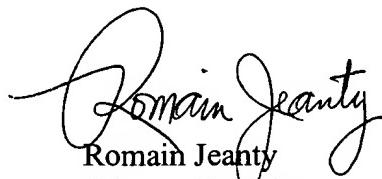
b. Gupta et al (Business Strategy, Manufacturing Flexibility, and Organizational Performance Relationships: A path Analysis Approach) discloses the multidimensional concept to produce customer customized products.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Romain Jeanty whose telephone number is (571) 272-6732. The examiner can normally be reached on Mon-Thurs 7:30 a.m. to 6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq R. Hafiz can be reached on (571) 272-6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

September 30, 2006



Romain Jeanty  
Primary Examiner  
Art Unit 3623